

INFORMATION DISCLOSURE STATEMENT							
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)				ATTY DOCKET NO. 2003_1847	SERIAL NO. 10/735,925		
Date Submitted to PTO: June 16, 2005				APPLICANT Mitsuaki OSHIMA			
				FILING DATE December 16, 2003	GROUP 2681		
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>[Signature]</i>	AA	3,824,548	7-16-74	Sullivan et al.			
	AB	3,959,726	5-25-76	Hinoshita et al.			
	AC	4,303,939	12-1-81	Stephens et al.			
	AD	4,303,941	12-1-81	Marti et al.			
	AE	4,309,726	1-5-82	Tanaka et al.			
	AF	4,535,352	8-85	Haskell			
	AG	4,564,858	1-14-86	Resch			
	AH	4,581,639	4-8-86	Judge			
	AI	4,769,819	9-6-88	Matsutani et al.			
	AJ	4,794,447	12-27-88	Tsinberg			
	AK	4,800,426	1-24-89	Glenn			
	AL	4,817,192	3-28-89	Phillips et al.			
	AM	5,007,088	4-9-91	Ooi et al.			
	AN	5,029,003	7-91	Jonnalagadda			
<i>[Signature]</i>	AO	5,134,464	7-28-92	Basile et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>[Signature]</i>	AP	5-327807	12-10-93	Japan			abstract
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>[Signature]</i>	AQ	Masafumi SAITO et al., "Bit Error Rate Characteristics of OFDM in Multipath Environment", 1991					
<i>[Signature]</i>	AR	Ryutaro OHMOTO et al., " $\pi/4$ -shift QPSK Subcarrier Transmission", 1991					
EXAMINER	<i>[Signature]</i>			DATE CONSIDERED	<i>9/7/05</i>		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Date Submitted to PTO: June 16, 2005

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Mitsuaki OSHIMAFILING DATE
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2681

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>[Signature]</i>	AA	5,181,112	1-19-93	Citta et al.			
<i>[Signature]</i>	AB	5,377,051	12-27-94	Lane et al.			
<i>[Signature]</i>	AC	5,400,084	3-21-95	Scarpa			
<i>[Signature]</i>	AD	5,576,902	11-19-96	Lane et al.			
<i>[Signature]</i>	AE	5,218,622	6-8-93	Fazel et al.			
<i>[Signature]</i>	AF	5,561,468	10-1-96	Bryan et al.			
<i>[Signature]</i>	AG	5,598,220	1-97	Citta et al.			
<i>[Signature]</i>	AH	5,214,656	5-25-93	Chung et al.			
<i>[Signature]</i>	AI	5,802,241	9-1-98	Oshima			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>[Signature]</i>	AJ	7-264148	10-13-95	Japan			abstract
<i>[Signature]</i>	AK	7-322219	12-8-95	Japan			abstract
<i>[Signature]</i>	AL	3-48587	3-1-91	Japan			abstract
<i>[Signature]</i>	AM						
<i>[Signature]</i>	AN						

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>[Signature]</i>	AO	J. A. C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, Vol. 28, May 1990, pages 5-8 and 11-14
<i>[Signature]</i>	AP	B. Hirosaki, "An Orthogonally Multiplexed QAM System Using the Discrete Fourier Transform", IEEE Transactions on Communications, Vol. Com-29, No. 7, July 1981, pages 982-989
<i>[Signature]</i>	AQ	L. J. Cimini, Jr., "Analysis and Simulation of a Digital Mobile Channel Using Orthogonal Frequency Division Multiplexing", IEEE Transactions on Communications, Vol. Com-33, No. 7, July 1985, pages 665-675 and Annex

EXAMINER

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DATE CONSIDERED

9/7/03